|     | Index of Claims |           |          |          |       |           |           |              |                 |          |          |          |           | A     | Application/Control No. |          |              |                     |               |          |           |             |                    |               | Applicant(s)/Patent under Reexamination |            |                     |        |         |              |          |                      |          |          |   |   |   |
|-----|-----------------|-----------|----------|----------|-------|-----------|-----------|--------------|-----------------|----------|----------|----------|-----------|-------|-------------------------|----------|--------------|---------------------|---------------|----------|-----------|-------------|--------------------|---------------|---|------------|---------------------|--------|---------|--------------|----------|----------------------|----------|----------|---|---|---|
|     |                 |           |          |          |       |           |           |              |                 |          |          |          |           |       |                         |          |              |                     |               |          |           |             |                    |               | HAYASHI ET AL.                          |            |                     |        |         |              |          |                      |          |          |   |   |   |
|     |                 |           |          |          |       |           |           |              |                 |          |          |          | Examiner  |       |                         |          |              |                     |               |          |           |             | Art Unit           |               |   |            |                     |        |         |              |          |                      |          |          |   |   |   |
|     |                 | 11111     | II III   | 11 11    |       | 1111      | likt.     |              | 1111            | 1115     | 11912    |          |           |       |                         |          |              | Jonathan S. Crepeau |               |          |           |             |                    |               |   |            |                     | 1745   |         |              |          |                      |          |          |   |   | _ |
|     | √ Rejected      |           |          |          |       | ,         |           |              | _ (Through Canc |          |          |          | numeral)  |       |                         | N Non-El |              |                     | lect          | cted     |           | A           | Appeal             |               |   |            |                     |        |         |              |          |                      |          |          |   |   |   |
|     | = Allowed       |           |          |          |       | l         |           | ÷            | Restricted      |          |          |          |           |       | ĺ                       | ī        | Interference |                     |               |          | 0         | Objected    |                    |               |   |            |                     |        |         |              |          |                      |          |          |   |   |   |
|     | Claim Dat       |           |          |          |       | ate       |           |              |                 |          | Claim    |          |           |       |                         |          |              | ate                 |               |          |           |             |                    | aim           | _                                       | Date       |                     |        |         |              | ٦        |                      |          |          |   |   |   |
|     |                 | Γ -       | L        |          |       |           |           |              |                 |          |          |          |           |       |                         | $\top$   | Π            | П                   | Ī             | Ī        | $\Box$    | T           | Τ                  |               |   |            | П                   | $\Box$ | Τ       | T            | Ť        | П                    | Т        | ┪        |   |   |   |
|     | Final           | Original  | 3        | 10/1     | 1     |           |           |              | İ               |          |          |          | į.        | Finat | Original                | 1        |              |                     |               |          |           |             |                    | 1             | Final                                   | Original   |                     |        |         |              | İ        |                      |          |          |   |   |   |
|     | _               | 0         | ÷        | 7        | 1     | +         | $\pm$     | $\dagger$    | $\exists$       |          |          |          | ,         |       | 51                      |          |              |                     |               |          |           | $\pm$       | $\dagger$          | Factors.      | _                                       | 101        | Н                   | $\top$ | +       | $\vdash$     | $\vdash$ |                      | $\dashv$ | $\dashv$ |   |   |   |
|     |                 | 2         | $\prod$  | 0        |       | Ŧ         | Ŧ         | $\downarrow$ | $\dashv$        |          |          |          |           |       | 52<br>53                | 1        | F            |                     | $\dashv$      | 1        | $\exists$ | 4           | $\perp$            | The state of  |   | 102<br>103 | Ш                   | 4      | Ţ       | L            | L        | П                    | $\dashv$ | 7        |   |   |   |
|     |                 | 4         | ╫        | 0        | +     | +         | +         | +            | -               |          | _        | ┝        |           |       | 54                      |          | +-           | Н                   | $\dashv$      | +        | +         | +           | +-                 | 13            | _                                       | 104        | $\vdash$            | +      | +       | ╁            | ┝        | $\vdash$             | $\dashv$ | ┥        | • |   |   |
|     |                 | 5         | П        | 7        | T     | 1         | 1         | 1            | _               |          |          |          | X         |       | 55                      |          |              |                     |               | $\Box$   | $\Box$    | $\Box$      | I                  |               |   | 105        | П                   | $\Box$ | I       |              |          | П                    | コ        | 1        |   |   |   |
|     |                 | 6         | ₩        | K        | 4     | +         | ╁         | +            | $\dashv$        | -1       | -        | ┝        | r. i      |       | 56<br>57                | +        | ╁            | Н                   | $\dashv$      | +        | ┥         | +           | ╀                  |               |   | 106<br>107 | H                   | +      | +       | ╀            | ┝        | $\vdash$             | +        | $\dashv$ |   |   |   |
| ,   |                 | 8         | Ш        | I        | $\pm$ | $\pm$     | $\perp$   | $\perp$      | コ               |          |          |          |           |       | 58                      |          |              |                     |               |          |           |             | 土                  | 閱             |   | 108        |                     |        | 士       |              |          | H                    | 1        | ╛        |   |   |   |
|     |                 | 9         | $\prod$  | П        | Ţ     | Ŧ         | Ŧ         | $\bot$       | _               |          |          |          | 4         |       | 59                      |          |              |                     |               | $\dashv$ | _         | $\perp$     | Ŧ                  | <b>1</b>      |   | 109        |                     | $\Box$ | $\bot$  | $oxed{\Box}$ |          |                      | $\Box$   | 4        |   |   |   |
|     |                 | 10        | ₩        | H        | +     | +         | ╁         | +            | $\dashv$        | $\dashv$ | _        | _        | n a       | _     | 60<br>61                |          | $\vdash$     | Н                   | $\dashv$      | $\dashv$ | $\dashv$  |             | +                  |               |   | 110<br>111 | Н                   |        | ╁       | ╁            | -        | $\vdash$             |          | $\dashv$ |   | - |   |
|     |                 | 12        | 世        | Ш        | t     | T         | 1         | 士            | ╛               |          |          |          |           |       | 62                      | Ι        |              |                     |               | コ        | コ         |             | İ                  | 闅             |   | 112        |                     |        |         |              |          |                      | 土        |          |   |   |   |
|     | ٠               | 13<br>(4) | ₩.       | Н        | 1     | +         | -         | 4            | 4               | _        |          | _        | 7         |       | 63<br>64                |          | ╀            | Н                   | 4             | 4        | 4         | +           | ╀                  | 蠶             |   | 113<br>114 | $\vdash$            | $\bot$ | 4       | ╄            | -        |                      | 4        | 4        |   |   |   |
|     |                 | 15        | H        | H        | ╁     | +         | +         | +            | $\dashv$        | $\dashv$ | _        | -        | 4         |       | 65                      |          | $\vdash$     | H                   | $\dashv$      | +        | $\dashv$  | +           | ╁                  |               |   | 115        | $\vdash$            | +      | ╁       | ╀            | ╁        | Н                    | $\dashv$ | ┥        |   |   |   |
|     |                 | (16)      | 1        | П        | I     | I         | 1         | 1            | $\Box$          |          |          |          |           |       | 66                      |          |              |                     | $\Box$        |          |           |             | I                  |               |   | 116        |                     |        |         |              |          |                      |          |          |   |   |   |
|     |                 | (17       | 1        | Ц        | ╁     | ╀         | +         | +            | $\dashv$        | _        | _        |          | ::7       |       | 67<br>68                |          | $\vdash$     | Н                   | -             | 4        | 4         | +           | +                  |               |   | 117<br>118 | $\vdash \vdash$     | +      | ┿       | ╀            | ⊢        | $\vdash$             | +        | $\dashv$ |   |   |   |
| _   |                 | 19        | 1        |          | +     | $\dagger$ | $\dagger$ | +            | 1               |          |          | -        | 1         |       | 69                      |          |              |                     | $\exists$     | $\dashv$ | $\dashv$  | $\pm$       | t                  |               |   | 119        |                     |        | +       | T            | H        | Н                    | $\dashv$ | ┪        |   |   |   |
|     |                 | 20        |          |          | I     | I         | I         | 1            | $\Box$          |          |          |          |           |       | 70                      |          |              |                     | $\Box$        | $\Box$   | $\Box$    | $\Box$      | L                  |               |   | 120        |                     | T      | I       | Γ            |          | П                    | 1        | $\Box$   |   |   |   |
|     |                 | 21        | ├        | ╀        | ╀     | +         | +         | +            | $\dashv$        | _        |          | _        | 46        |       | 71<br>72                |          | $\vdash$     | Н                   | $\dashv$      | +        | $\dashv$  | +           | ╀                  |               |   | 121<br>122 | Н                   | +      | +       | +            | ┝        | ${oldsymbol{arphi}}$ | $\dashv$ | 4        | ' |   |   |
|     |                 | 23        | T        | T        | t     | t         | $\dagger$ | †            | 1               |          |          |          |           |       | 73                      | T        |              | $\exists$           | $\dashv$      | 1        | 1         | 十           | +                  | i dis         |   | 123        | Н                   | $\top$ | +       | $\vdash$     | T        | H                    | $\dashv$ | ┪        |   |   |   |
|     |                 | 24        |          | L        | I     | Ţ         | Ţ         | $\bot$       | $\Box$          |          |          |          | 7         |       | 74                      |          | $\Box$       | $\Box$              | $\Box$        | $\Box$   | $\Box$    | $\perp$     | $oldsymbol{\perp}$ |               |   | 124        | П                   | $\Box$ | $\perp$ |              |          | П                    | $\Box$   |          |   |   |   |
|     | _               | 25<br>26  | ╁        | ╁        | ╁     | ╁         | +         | +            | $\dashv$        | -        |          | _        |           |       | 75<br>76                |          | 1-           | -                   | $\dashv$      | +        | $\dashv$  | +           | ╁                  | 1.            |   | 125<br>126 | Н                   | +      | +-      | ╁            | ┝        | Н                    | $\dashv$ | ┥        |   |   |   |
|     |                 | 27        |          | L        | İ     | I         | 土         | 士            | コ               |          |          |          |           |       | 77                      |          |              |                     |               |          |           | 土           | 土                  |               |   | 127        |                     | 土      | 土       | 匚            |          |                      | 士        | ゴ        |   |   |   |
|     |                 | 28<br>29  | -        | -        | ╀     | ╀         | +         | +            | 4               | _        | _        | <u> </u> |           |       | 78<br>79                |          | $\vdash$     | Н                   | -             | 4        | 4         | +           | $\perp$            |               |   | 128<br>129 | $\vdash$            | +      | +       | $\vdash$     | L        | Н                    | -        | 4        |   |   |   |
|     |                 | 30        | $\vdash$ | ╁        | t     | ╁         | ┿         | +            | +               |          |          |          |           |       | 80                      |          | $\vdash$     | $\vdash$            | +             | +        | $\dashv$  | +           | ╁                  |               |   | 130        | Н                   | +      | +       | $\vdash$     | -        |                      | +        | $\dashv$ |   |   |   |
|     |                 | 31        |          |          | I     | I         | I         | 1            | $\Box$          |          |          |          | A section |       | 81                      | I        |              |                     | $\Box$        | $\Box$   |           |             | L                  |               |   | 131        |                     | ╧      |         |              |          |                      | $\Box$   |          |   |   |   |
|     |                 | 32<br>33  | ┝        | ┞        | ╀     | ╀         | ╀         | +            | 4               | _        |          | _        |           |       | 82<br>83                |          |              | $\dashv$            | +             | 4        | +         | -           | +-                 | -             |   | 132<br>133 | Н                   | +      | ╀       | ┝            | -        | Н                    | $\dashv$ | 4        |   |   |   |
|     |                 | 34        | H        | ┢        | +     | +         | +         | $\dagger$    | +               | ┪        | Н        | -        | Here.     |       | 84                      |          | Н            | $\forall$           | $\dashv$      | +        | $\dashv$  | $\dashv$    | ┿                  | 1 1           |   | 134        | Н                   |        | 十       | H            | $\vdash$ | Н                    | +        | ┪        |   |   |   |
|     |                 | 35        |          |          | I     | I         | Ţ         | 7            | $\exists$       |          |          |          |           |       | 85                      |          |              |                     | 7             | $\Box$   | 1         |             | I                  | 1.1           |   | 135        |                     | $\Box$ | T       | Г            |          | П                    | $\Box$   |          |   |   |   |
|     |                 | 36<br>37  | ⊢        | ┝        | ╀     | +         | ╀         | ┿            | +               | $\dashv$ |          | _        |           |       | 86<br>87                |          | ╌            | $\dashv$            | +             | -        | +         | +           | ╁╴                 |               |   | 136<br>137 | Н                   | +      | +       | ┝            | -        | Н                    | -        | -        |   |   |   |
|     |                 | 38        |          |          | T     | $\pm$     | t         | $\dagger$    | 7               |          |          |          |           |       | 88                      | -        | $\vdash$     | $\dashv$            | ┪             | +        | 十         | +           | +                  | 1             |   | 138        |                     | _      | +       | <u> </u>     | _        | H                    | -        | $\dashv$ |   |   |   |
| ĺ   |                 | 39        | ¢.       | L        | Į     | I         | Ţ         | Į            | $\perp$         |          |          |          | . :       |       | 89                      |          |              | $\Box$              | $\Box$        | $\Box$   | $\Box$    | $\perp$     | L                  |               |   | 139        |                     |        | I       |              |          |                      | $\Box$   | 7        |   |   |   |
| - 1 |                 | 40        | $\vdash$ | $\vdash$ | +     | +         | +         | +            | $\dashv$        | -        | $\dashv$ | -        |           |       | 90                      | +        | Н            | $\dashv$            | +             | $\dashv$ | +         | +           | ╁                  | { }           |   | 140        | $\vdash \vdash$     | +      | +       | $\vdash$     | $\vdash$ | ┥                    | +        | $\dashv$ |   |   |   |
| Ì   |                 | 42        |          |          | T     | 工         | 1         | 1            | $\exists$       |          |          |          |           |       | 92                      |          | $\Box$       |                     | 士             | 丁        | 士         | 土           |                    | <b>]</b> ***[ |   | 142        |                     |        | 上       |              |          | 口                    | 士        |          |   |   |   |
| J   |                 | 43        | <u> </u> | F        | F     | $\bot$    | $\bot$    | 4            | 4               | 4        | $\Box$   |          | 200.00    |       | 93                      |          | П            | Ц                   | Ţ             | 4        | Ţ         | Ţ           | $\perp$            |               |   | 143        | $\vdash \downarrow$ | $\bot$ | $\perp$ |              | $\Box$   | $\square$            | 4        | 4        |   |   |   |
|     |                 | 44<br>45  | $\vdash$ | -        | t     | +         | +         | +            | +               | -        | -        |          |           |       | 94<br>95                |          | Н            | $\dashv$            | $\dashv$      | +        | +         | +           | ╁                  | 1 1           |   | 144        | ┝╌┤                 | +      | ╁       | ╁            | $\vdash$ | $\vdash$             | +        | $\dashv$ |   |   |   |
| į   |                 | 46        |          |          | T     | 工         | Ţ         | 1            | $\exists$       |          |          |          |           |       | 96                      | T        |              |                     | I             | 士        | コ         | 土           | 上                  | 1 4           |   | 146        |                     | 工      | I       |              |          | 口                    | 士        |          |   |   |   |
|     |                 | 47        | L        | $\vdash$ | Ļ     | +         | +         | +            | 4               | 4        | 4        | _        | , 1       |       | 97<br>98                | 1        | $\Box$       | 4                   | $\dashv$      | 4        | 4         | $\bot$      | $\vdash$           | Į. [          |   | 147<br>148 | oxdot               | -      | +       | $\vdash$     | Щ        | $\sqcup$             | 4        | 4        |   |   |   |
| ŀ   |                 | 48<br>49  | -        | $\vdash$ | +     | +         | +         | $\dagger$    | +               | +        | $\dashv$ | $\dashv$ | 1         |       | 99                      | +        | H            | +                   | +             | +        | +         | +-          | +                  | <b>1</b>      |   | 148        | $\vdash \vdash$     | +      | +       | H            | Н        | $\vdash$             | +        | $\dashv$ |   |   |   |
| ł   |                 | -50       | _        | _        | 1     | 1         | 1-        |              | $\dashv$        | -+       | -1       | _        | - 1       |       | 400                     |          | <del>-</del> | -+                  | $\rightarrow$ | -        | -+        | <del></del> | +-                 | 1 .H          |   | 450        | -+                  |        | +-      | 1            | -        | $\overline{}$        | -        | -        |   |   |   |

Application/Control No.